

1.(1 pt) The inequality $6x + 10 > 3$ means that x is greater than A where A is _____

2.(1 pt) The inequality $2x + 7 \leq x + 10 \leq 3x + 6$ means that x is in the closed interval $[A, B]$ where A is: _____ and B is: _____

3.(1 pt) Solve the inequality $x^2 + 6x - 27 < 0$. The solution is x is in the open interval (A, B) where A is: _____ and B is: _____

4.(1 pt) You arrive in Paris and the forecast is for a low of 20 and a high of 26 degrees Celsius. What is the forecasted low temperature in Fahrenheit? _____
What is the forecasted high temperature in Fahrenheit? _____

5.(1 pt) Your friend from Paris arrives in New York and the forecast is for a low of 54 and a high of 79 degrees Fahrenheit. What is the forecasted low temperature in Celsius? _____
What is the forecasted high temperature in Celsius? _____

6.(1 pt) Consider the inequality

$$4 + 5x > 4x + 9$$

The solution of this inequality consists one or more of the following intervals: $(-\infty, A)$ and (A, ∞)

Find A _____

For each interval, answer YES or NO to whether the interval is included in the solution.

$(-\infty, A)$ _____

(A, ∞) _____

7.(1 pt) Consider the inequality

$$x^2 < 3x + 40$$

The solution of this inequality consists one or more of the following intervals: $(-\infty, A)$, (A, B) , and (B, ∞) where $A < B$.

Find A _____

Find B _____

For each interval, answer YES or NO to whether the interval is included in the solution.

$(-\infty, A)$ _____

(A, B) _____

(B, ∞) _____

8.(1 pt) Consider the inequality

$$\frac{x - 6}{x^2(x + 4)} > 0$$

The solution of this inequality consists one or more of the following intervals: $(-\infty, A)$, (A, B) , (B, C) , and (C, ∞) where $A < B < C$.

Find A _____

Find B _____

Find C _____

For each interval, answer YES or NO to whether the interval is included in the solution.

$(-\infty, A)$ _____

(A, B) _____

(B, C) _____

(C, ∞) _____

9.(1 pt) Consider the inequality

$$\frac{x + 7}{x + 1} > -2$$

The solution of this inequality consists one or more of the following intervals: $(-\infty, A)$, (A, B) , and (B, ∞) where $A < B$.

Find A _____

Find B _____

For each interval, answer YES or NO to whether the interval is included in the solution.

$(-\infty, A)$ _____

(A, B) _____

(B, ∞) _____

10.(1 pt) Consider the inequality

$$\frac{x}{x - 1} > \frac{x}{8}$$

The solution of this inequality consists one or more of the following intervals: $(-\infty, A)$, (A, B) , (B, C) , and (C, ∞) where $A < B < C$.

Find A _____

Find B _____

Find C _____

For each interval, answer YES or NO to whether the interval is included in the solution.

$(-\infty, A)$ _____

(A, B) _____

(B, C) _____

(C, ∞) _____